EXPLORATION PREVIEW
NWT - 1990

by NWT Geology Division Staff
DIAND
Box 1500
Yellowknife, NWT

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Edited by A.D. Enge

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INTRODUCTION

Each year the District Geologists of the NWT Geology Division of DIAND in Yellowknife canvas NWT mineral property owners to compile a brief description of expected mineral exploration. The information obtained is compiled in this brief preview and distributed widely to interested people and groups in NWT and elsewhere in Canada by mail. As well, copies are distributed at the Prospectors and Developers Annual meeting in Toronto.

This preview also lists geological programs to be conducted by the Canada-NWT Mineral Development Agreement and the NWT Geology Division of DIAND.

Copies can be obtained by contacting the NWT Geology Division, DIAND, P.O. Box 1500, Yellowknife, NT, XIA 2R3; Tel. (403) 920-8215.

PROJECTS PROPOSED BY NWT GEOLOGY DIVISION

NTS AREA	Project Officer	Project Type
76 L Kathawachaga Lake	V. Jackson NWT Geology Division	1:30 000 mapping, bedrock (9a, Fig. 1).
76 L Kathawachaga Lake	D. Kerr Environmental Consulting Service	1:30 000 mapping, surficial (9a, Fig. 1).
85, 86 Yellowknife River Basin	D. Kerr Environmental Consulting Service	1:250 000 mapping, surficial.
Slave Province	W.K. Fyson (Ottawa University)	Structural studies of Slave Province.
85 J	H. Helmstaedt (Queen's University)	Structure and stratigraphy of Yellowknife volcanic belt (30-33, Fig. 1).
76 N Turner Lake	A. Lalonde S. Schaan (Ottawa University)	Detailed bedrock mapping and study of Turner Lake gold property (3b, Fig. 1).
56 D Tehek Lake	R. James A. Armitage (Laurentian University)	Auriferous iron formation (9, Fig. 5).
76 N Torp Lake	G. Skippen K. Venance (Carleton University)	Metamorphic studies of the Torp Lake metasedimentary belt (3a, Fig. 1).
86 G Acasta River & Slave Province	S. Bowring C. Isachsen (Washington University)	Geochronological studies on earth's oldest known rocks and Slave Province.

CANADA-NWT MDA PROJECTS

Government of the NWT - MDA Projects Proposed for 1989

NTS	Area	Project Officer	Project Type
85 P	Upper Beaulieu	M. Stubley	1:50 000 mapping, bedrock
76 N	Lower Hood/ James Rivers	R. Johnstone	1:50 000 mapping, bedrock
76 O	Hope Bay	J. Gebert	1:50 000 mapping, bedrock
86 B/3,6	Indin Lake	J. Morgan	A study of gold deposits related to structure & stratigraphy
85 J	Yellowknife	H. Falck	Structural and stratigraphic studies of various gold deposits in the Yellowknife volcanic belt

GSC - MDA GEOSCIENCE PROGRAM

NTS	Project Name	Project Responsibility	Map Scale
	Regional Geology (LCSD Mapping Projects):		
76 E,F	Contwoyto - Nose Lake area	J.E. King, C. Relf	1:125 000
85 P/2	Cameron River	M.B. Lambert, D. James	1:10 000
	Mineral Deposits (MRD):		
*	Gold Metallogeny - Slave	C.W. Jefferson	
	1) Courageous Lake, Contoyto Lake and Back River areas	J. Kerswill	
	2) Pistol Lake - Fishhook Lake areas	J. and M. Henderson	
	3) Pistol Lake	R. Wyllie	
*	PGE in ultramafic/mafics, NWT	L. Hulbert	
85 I/2,86	Rare Metals - Slave/Churchill/ Bear	W.D. Sinclair	

LCSD = Lithosphere and Canadian Shield Division
MRD = Mineral Deposits Division
* = Projects cover large areas, or many small widely spaced areas

NORTHERN SLAVE STRUCTURAL PROVINCE

J.B. Seaton

Projects in the northern Slave Province are directed at precious metal targets, and some of **Continental Pacific Resources'** projects may include ancillary base metal exploration.

Aber Resources Ltd. will reconnoitre parts of the Slave Province.

Argus Resources Ltd. and their associate **Sirius Energy Corporation** have optioned their property in the "Esker Lake" area (19, Fig. 1) comprising the MUSKOX and other claims, and in the Regan Lake area (22, 23 Fig. 1), the FIRE and other claims to **Equity Silver Mines Ltd. Equity** will manage a program that includes winter drilling and geophysics.

Back River Joint Venture (Homestake Mining Company, Kerr-McGee Corporation and Mac Lab Group) will explore BRAU claims in the "Boot Lake" (16, Fig. 1) and "Needle Lake" (24, Fig. 1) areas. At one of these locations drilling may be done. The project is managed by **Trigg, Woollett, Olson Consulting**.

BHP-Utah Mines Ltd. intends to resume exploration in the High Lake and Anialik River supracrustal belts on the CROWN (7, Fig. 1) and adjourning DEN (5, Fig. 1) claim blocks, the ULU claims (6, Fig. 1) and PULSE claims (7, Fig. 1), the BRAVO (4, Fig. 1) and CYGNET claims (2, Fig. 1). Drilling is to be done only on the CROWN claim. In the Contwoyto Lake area, **BHP-Utah** intends to continue drilling on the TROY claims (10, Fig. 1) and the BRAD claims 10 km to the west.

Bre-X Minerals Ltd. will follow up an airborne survey with ground geophysics and geological mapping on the RED (18, Fig. 1) and ED (21, Fig. 1) claims.

Cogema Canada Ltd. will explore the GAET (15, Fig, 1) and DEX claims (17, Fig. 1) in the Beechey Lake Basin.

Cominco Ltd. will drill and perform a geophysical survey on the KCL claim (3, Fig. 1), south of High Lake, and do a geophysical survey on **Bathurst Norsemines'** property (14, Fig. 1).

Cominco - Cogema Joint Venture will resume drilling in the Butterfly Lake area (12, Fig. 1). The joint venture will carry out geophysical surveys on the COCO claims, east of Contwoyto Lake (13, Fig. 1).

Continental Pacific Resources Ltd. expect to explore their property in the High Lake and Anialik River supracrustal belts. As yet, it is undecided which of their numerous properties will be explored, but, drilling and geophysics are anticipated (2-8, Fig. 1).

Echo Bay Mines Ltd. will concentrate exploration in the Lupin Mine lease area (11, Fig. 1) where drilling and geophysical surveys will be done. A much smaller exploration program is planned for the EUGE, FLOOD, DING, DONG, BELL claim block in the Back River area (25, Fig. 1).

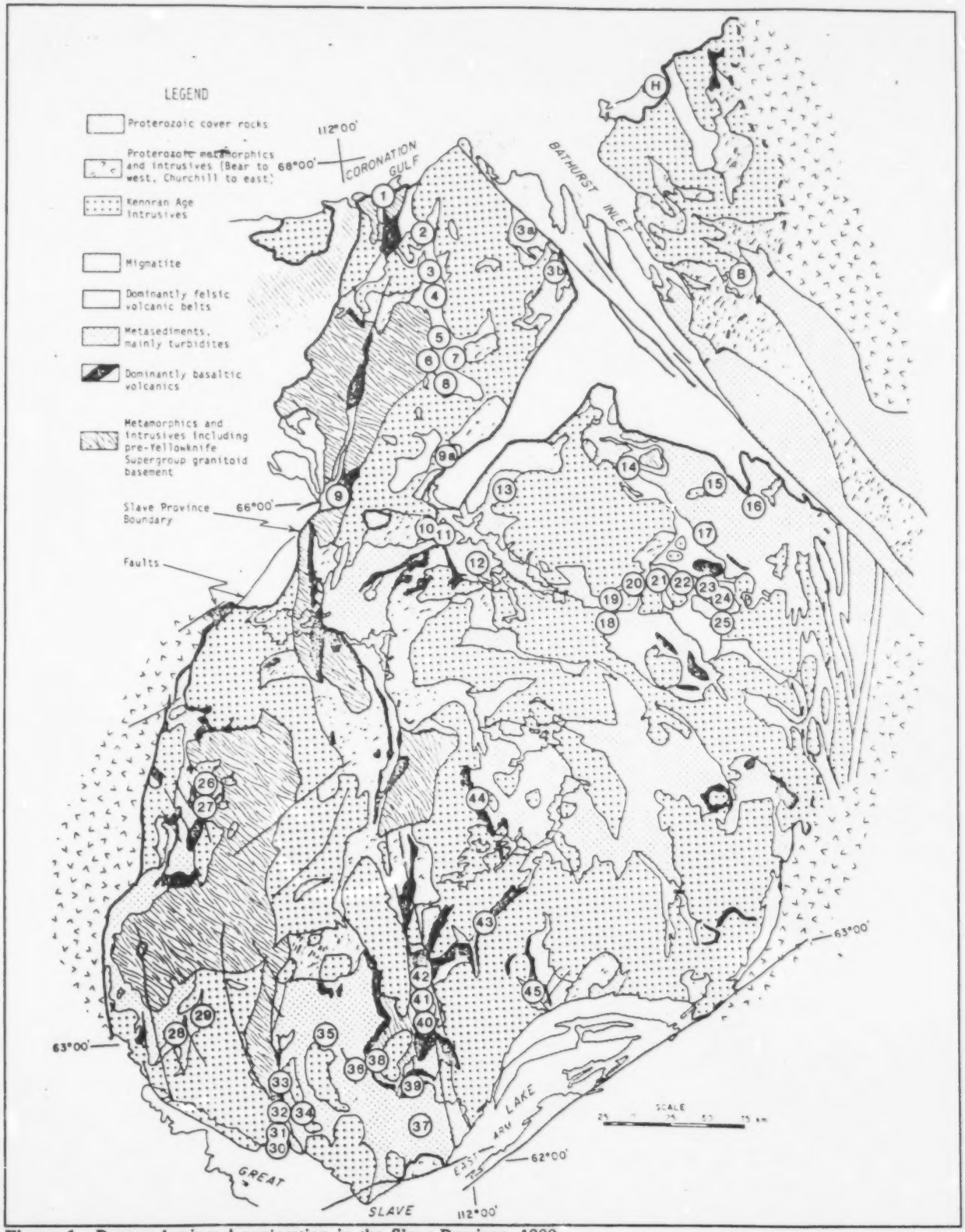

Figure 1: Proposed mineral exploration in the Slave Province, 1990.

Falconbridge Nickel Ltd. plan geological and geochemical surveys on the HOOD claims (9, Fig. 1) near the south end of Takiyuak Lake.

George Lake Joint Venture (**Homestake Mining Company** and **Kerr-McGee Corporation**) will continue a large exploration program on the "George Lake" area BRAU claims. The program will consist mainly of drilling and will be managed by **Trigg, Woollett, Olson Consulting**. **George Lake Joint Venture** devolved from the **Back River Joint Venture** (16, Fig. 1).

Orofino Resources Ltd. hopes to drill at the Arcadia property (1, Fig. 1).

SOUTHERN SLAVE STRUCTURAL PROVINCE

Dorothy Atkinson

INDIN LAKE AREA

This winter **Noranda Exploration Co. Ltd.** will drill 5 holes for 700 m to test the MESA claims (26, Fig. 1; 86 B/4).

The large-tonnage, low grade Colomac Mine of **ABM Gold Corp.,** 212 km north-northwest of Yellowknife, continues construction on schedule with gold production due to begin in the second quarter of 1990 (27, Fig. 1; 86 B/6). Annual gold production should average 6200 kg. Open pitable reserves for the deposit are 25.6 Mt grading 1.9 g/t Au in the proven and probable categories and 5.6 Mt grading 2.23 g/t Au possible reserves based on a 0.96 g/t Au cutoff grade. There is potential to expand reserves along strike and at depth. Operations will consist of a large open pit mine and a 9100 tpd conventional mill. The ore is metallurgically simple and a 95% gold recovery is expected. Transportation to the mine is by aircraft with winter road access from January to March. **ABM** will continue exploration of its mine property with mapping, sampling and drilling.

RUSSELL LAKE AREA

Aber Resources Ltd. drilled 700 m on the BUGOW claims earlier this year (28, Fig. 1; 85 O/4). **Aber** also plans to drill 800 m to test their PHAROAH 1 claim in the Mosher Lake area (29, Fig. 1; 85 O/3).

Fortune Minerals plan ground geophysics and prospecting on the YELLER claims (28, Fig. 1; 85 O/6).

YELLOWKNIFE GREENSTONE BELT

This winter **Golden Marlin Resources Ltd.**, operator and **Cameco** are conducting IP geophysical surveys on the northwest area of their claim block in Yellowknife Bay and plan to test geophysical anomalies by 1500 m of drilling (30, Fig. 1; 85 J/8).

NERCO Con Mine Ltd. will aggressively explore their mining leases (31, Fig. 1; 85 J/8). An extensive IP survey south of the mine will start in March and may be followed by exploration drilling. In addition 1500 m of drilling is planned for the Rat Lake area. Metallurgical testing of tailings is ongoing and **NERCO** may drill them this year to further evaluate the potential for a retreatment plant.

Giant Yellowknife Mines Ltd. will continue to explore and drill their mining leases including the Supercrest deposit which may be back in production this year (32, Fig. 1; 85 J/8). **Giant** also plans to continue drill testing its tailings. By April, **Giant** will complete four deep exploration drill holes.

This spring, **Treminco Resources Ltd.** plans to a bulk sample the Crestaurum deposit (32, Fig. 1; 85 J/8) and run metallurgical tests at its Ptarmigan mine.

Kelmet Resources Inc. plan to continue exploration of their Walsh Lake property (32, Fig. 1; 85 J/9).

In February, **CAN-MAC Exploration Ltd.** trucked a bulk sample mined in 1989 from the MON property. In March, it will be custom milled at the Ptarmigan mill. **CAN-MAC** also completed 600 m of underground drilling this year and plan a further 1500 m of surface drilling this summer to test exploration targets on their property (33, Fig. 1; 85 J/16).

YELLOWKNIFE SUPRACRUSTAL BASIN

Treminco Resources Ltd. will continue exploration of their mine leases including underground exploration drifting on the Ptarmigan and Tom veins and drilling of the Ptarmigan and C veins (34, Fig. 1; 85 J/8).

Athabaska Gold Resources Ltd., operator and **Chevron Minerals Ltd.** began a 5000 m drill program in February to further evaluate the Nicholas Lake deposit main showing on NIC 1 and test other targets found on their claim block during 1989 prospecting and geophysical surveys. IP, magnetometer and EM surveys will be extended, (35, Fig. 1; 85 P/5).

Northern Minerals Ltd. hopes to continue to explore the PTX claims at Gordon Lake which are under option from **Balmoral Mines Ltd.** (36, Fig. 1; 85 P/2).

Based on 1989 exploration, **Mt. Grant Mines Ltd.** will complete an engineering evaluation on Bullmoose Lake Gold Mine (37, Fig. 1; 85 I/7).

CAMERON RIVER AND BEAULIEU RIVER GREENSTONE BELTS

Giant Yellowknife Mines Ltd. plan to drill the AP and RED claims (38, Fig. 1; 85 I/14).

Strathcona Mineral Services Ltd. plan to drill 3000 m this winter on claims in the Turnback-Tumpline Lakes area to test conductors and favourable geology defined during 1989 exploration (39, Fig. 1; 85 I/10). This summer **Strathcona** may expand their exploration west to the Trout Lake area (85 I/7).

Noranda Exploration Co. Ltd. will drill 5000 m in the Sunrise deposit area this winter using two diamond drills (40, Fig. 1; 85 I/16).

Placer Dome Inc. have optioned the KA and PAM claims from **Bill Kizan** and plan mapping, prospecting and ground geophysical surveys (41, Fig. 1; 85 P/1,8).

Northgate Exploration Co. Ltd. plan to conduct mapping, trenching and sampling for polymetallic massive sulphide targets on the BONES claims (42, Fig. 1; 85 P/7,8,9,10).

CAMSELL LAKE AREA

Hidden Lake Gold Mines Ltd. plan to map, prospect, conduct lithogeochemical surveys and possibly ground geophysical surveys on and in the area of the NANCY, CAM, CINDY and CANOE claims (43, Fig. 1; 87 M/5,6,11,12).

COURAGEOUS LAKE VOLCANIC BELT

Noranda Exploration Co. Ltd., Hemlo Gold Mines Inc. and **Total Energold Corp.** plan to conduct surface mapping and geophysics and drill at the Tundra property (44, Fig. 1; 76 D/3).

INDIAN MOUNTAIN LAKE AREA

Using two diamond drill rigs, **Ego Resources Ltd.** and **Asquith Resources Inc.** completed a winter drill program to test both the BB zone and the Kennedy Lake west copper zone. **Ego** will also complete this winter detailed ground geophysics including pulse EM, vertical gradiometer surveys and horizontal loop EM together with downhole pulse EM. Detailed mapping will be undertaken this summer along with further drilling to outline reserves (45, Fig. 1; 75 M/2).

OTHER EXPLORATION

Companies planning grassroots exploration include **Aber Resources Ltd.** and **Noranda Exploration Co. Ltd.** Property evaluations will be pursued by **Corona, Placer Dome Inc.** and **Inco Gold.**

BATHURST BLOCK - SLAVE STRUCTURAL PROVINCE

Walter A. Gibbins

Noranda Exploration Co. Ltd. is expected to drill **Abermin Corporation's** Hope Bay gold prospects (H, Fig. 1)

BHP-Utah Mines Ltd. will explore the LIMA, SIERRA and QUASIOK claims in the Tinney Hills - Hiukitak River area (B, Fig. 1).

BEAR STRUCTURAL PROVINCE

J.B. Seaton

The target in the Bear Province is mainly precious metals and total expenditure is unlikely to exceed $2,000,000.

Aber Resources Ltd. plan a geological reconnaissance of the Bear Province (Fig. 2).

Cominco Ltd. will explore Prospecting Permits 1244 - 1247 (A, Fig. 2), which straddle roughly 50 km of the Wopmay Fault. Geological mapping and prospecting will be done on Prospecting Permits 1248 (B, Fig. 2) and 1249 and 1250 (C, Fig. 2).

C.E.G.B. (Canada) Exploration Ltd's. BUD claims (D, Fig. 2) may be explored.

Prospecting Permits issued February 1, 1990 cover the following map areas in the Bear Province:

NUMBER	NTS MAP AREA	PERMITTEE
1244	86-F-02 NE	COMINCO LTD.
1245	86-F-02 SE	COMINCO LTD.
1246	86-F-08 NE	COMINCO LTD.
1247	86-F-08 SE	COMINCO LTD.
1248	86-F-15 NE	COMINCO LTD.
1249	86-G-04 NW	COMINCO LTD.
1250	86-G-04 NE	COMINCO LTD.

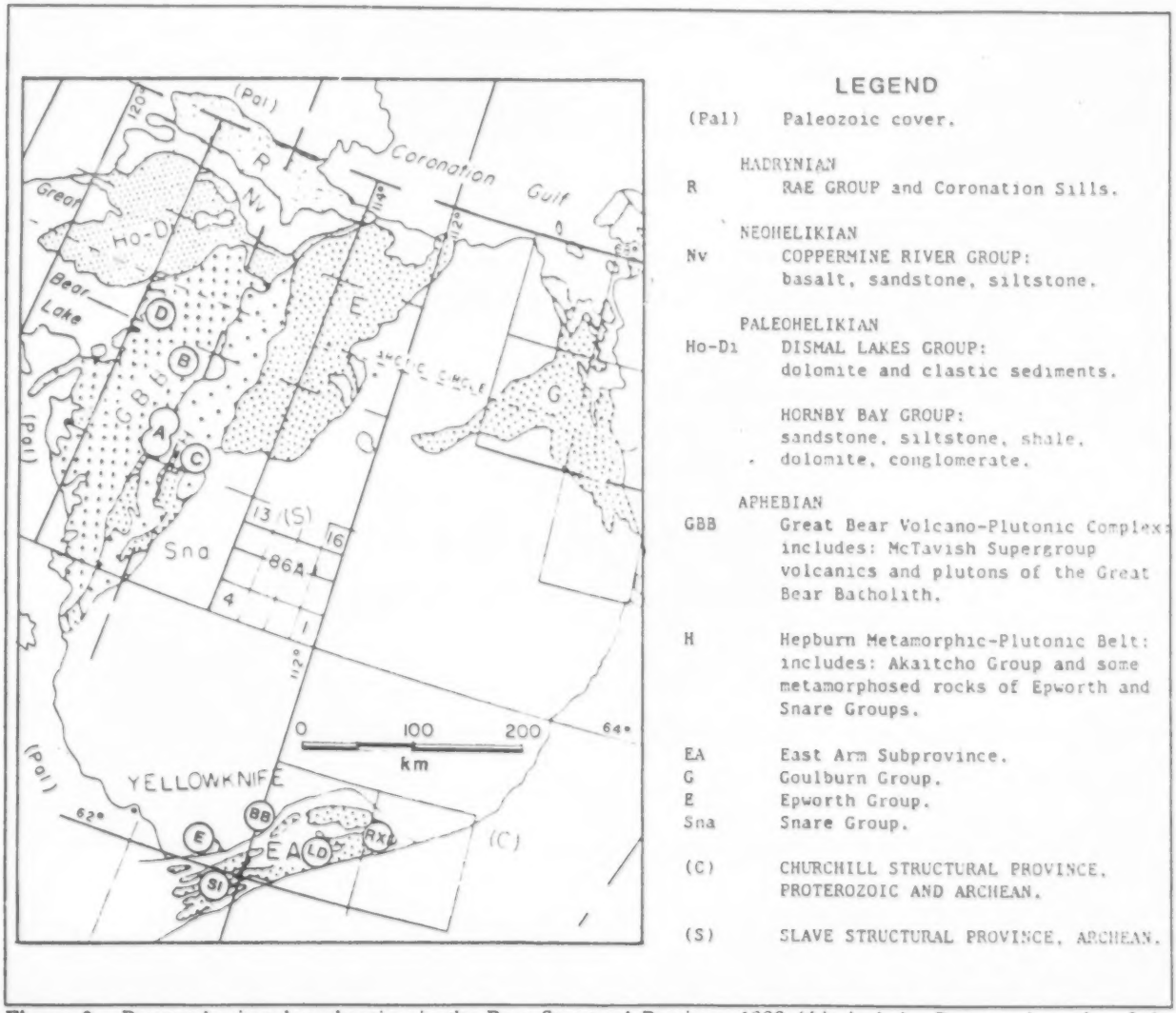

Figure 2: Proposed mineral exploration in the Bear Structural Province, 1990 (this includes Proterozoic rocks of the East Arm of Great Slave Lake).

ATHAPUSKOW BASIN

Walter A. Gibbins

Kelmet Resources Ltd. plan to continue exploring claims near Simpson Island (SI, Fig. 2) and Lac Duhamel (LD, Fig. 2).

BBX Resources Corp. plan to drill and trench geophysical anomalies in the BBX breccia pipe near Taltheli Narrows (BB, Fig. 2).

Leeward Capital Corp. will continue exploring for gold on the REX claims at Meridian Lake near Fort Reliance (RX, Fig. 2).

GREAT SLAVE PLAIN

Walter A. Gibbins

BP Minerals Ltd. are expected to explore Prospecting Permits 1225-1228 in the Greasy Lake area (1, Fig. 3; 95 J/16), and claims blocks in NTS 85 L and K, (2, Fig. 3).

Several claims scattered near the North Arm of Great Slave Lake (6, Fig. 3) will be explored by **759292 Ontario Ltd.**

Cominco Ltd. plan to explore claim groups near Racoon Lake (3, Fig. 3), Mink Lake (4, Fig. 3), Bras d' Or Lake and Chedabucto Lake (5, Fig. 3).

Prospecting Permits issued February 1, 1990 cover the following map areas in the Great Slave Plain:

NUMBER	NTS MAP AREA	PERMITTEE
1225	95-J-15 SE	BP RESOURCES LTD
1226	95-J-16 NW	BP RESOURCES LTD
1227	95-J-16 SE	BP RESOURCES LTD
1228	95-J-16 SW	BP RESOURCES LTD

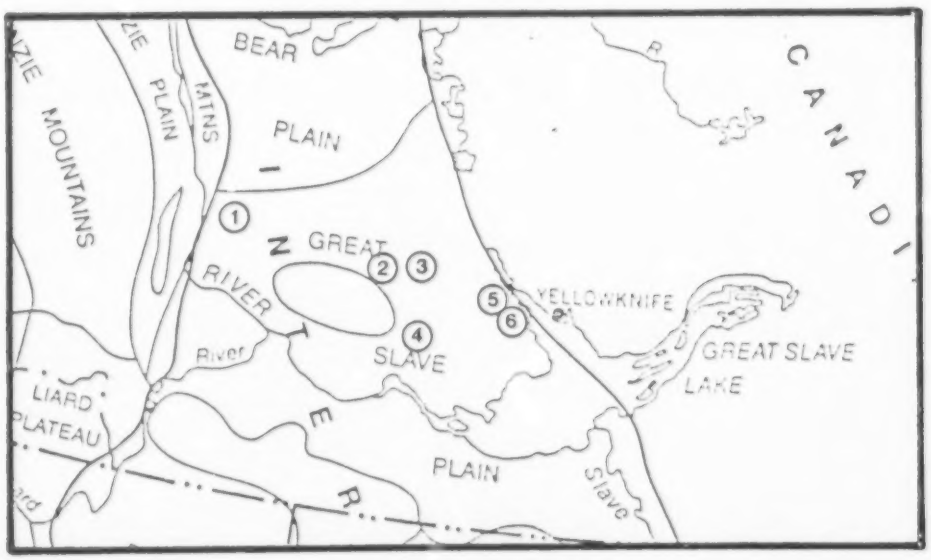

Figure 3: Proposed mineral exploration in the Great Slave Plain area, 1990.
Indian and Northern Affairs, Canada

SOUTHEAST MACKENZIE DISTRICT

Walter A. Gibbins

TALSTON ARC

Kelmet Resources Ltd. will explore claims in the Thurbun Lake area (1, Fig. 4).

BHP-Utah Mines Ltd. will continue to evaluate claims optioned from **Enexco International Ltd.** in the Rutledge Lake area (2, Fig. 4).

RAE PROVINCE

Fortune Minerals Ltd. will perform geological and IP surveys on copper-precious metal prospects near Salkeld Lake (3, Fig. 4).

PNC Exploration (Canada) Ltd. plan to prospect the BOOM claims (75 I/10) near the margin of the Thelon Basin (4, Fig. 4).

Solid Resources Ltd. plan geophysical surveys for the Thye Lake nickel-copper showing near Selwyn Lake (5, Fig. 4).

HEARNE PROVINCE

Taiga Consultants Ltd. plan to explore gold targets near Snowbird Lake (6, Fig. 4) for **Courageous Exploration Ltd.** on claims and permits optioned from **Leeward Capital Corp.** and **Comaplex Minerals Corp.**

W.A. Hubachek Consultants plan to drill gold showings in the Rochon-Kasba Lakes area (7, Fig. 4) for **Agnico-Eagle Mines Ltd.**

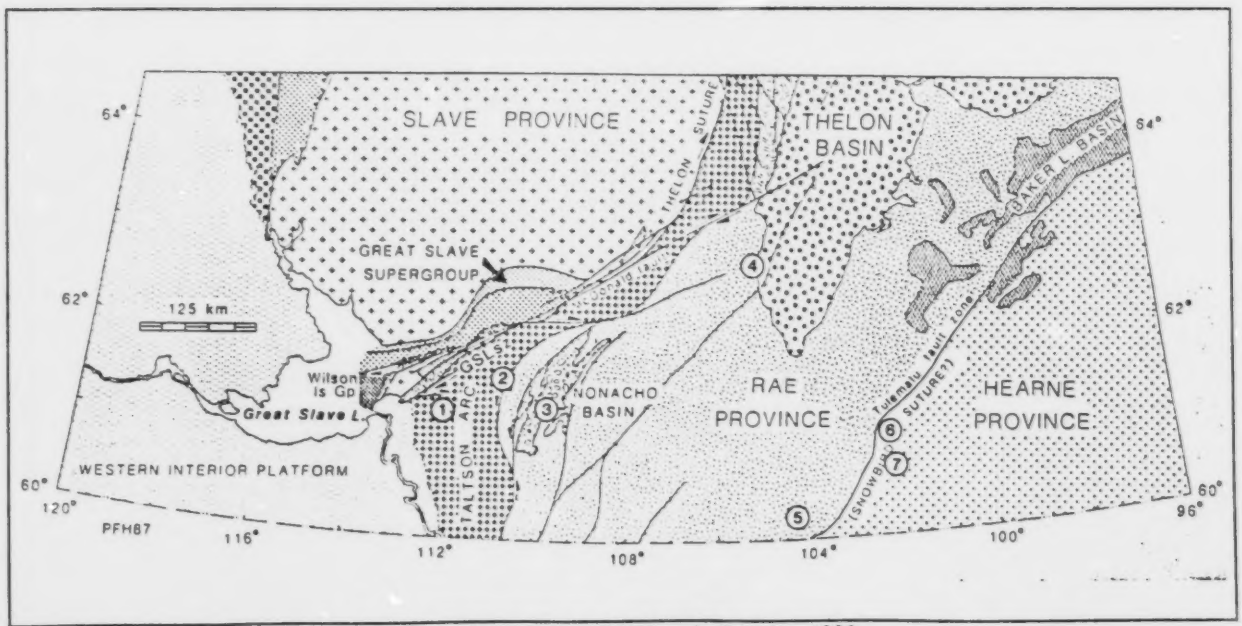

Figure 4: Proposed mineral exploration in the southeast Mackenzie District, 1990.

DISTRICT OF KEEWATIN

Steve Goff and Arnold Enge

In 1990, exploration is expected to be at a similar level to last year, although over twice as many permits were issued in February 1, 1990 than during the same period last year.

GOLD

Asamera Minerals Inc., in a joint venture with **Comaplex Minerals Corp.**, plan detailed mapping, prospecting and sampling plus magnetic and VLF surveys of claims and Prospecting Permits 1210-1224 northwest of Rankin Inlet in the Meliadine River area (1, Fig. 5).

BHP-Utah Mines Ltd. plan to drill 2000 to 3000 m on their claims at Carr Lake (13, Fig. 5) and Maguse Lake (15, Fig. 5) and possibly on the BEAVER claims west of Carr Lake (13, Fig.5).

Borealis Exploration Ltd., in association with at least one joint venture partner, plan mapping, prospecting, geophysics and approximately 2000 m of drilling on the NANCY claims, (6, Fig. 5), the PETER claims, (9, Fig. 5), claims at Padlei (16, Fig. 5) and at Fat Lake (5, Fig. 5). Test mining may be carried out in the Fat Lake area.

Comaplex Mineral Corp. plan to map and prospect on Prospecting Permits 1233-1237 and 1251 in the Cullaton Lake area (17, Fig. 5).

Comaplex Mineral Corp., in a joint venture with **Asamera Minerals Inc.** and **Lucky Eagle Mines** plan to drill approximately 2000 m on their main showing north of Tehek Lake (25, Fig. 5). They also plan regional mapping and detailed mapping, VLF and magnetic surveys on Prospecting Permits 1206-1209. They may drill other showings.

Dejour Mines Ltd. will continue exploration with drilling, mapping, prospecting, and magnetic and IP surveys, of the Turquetil Lake deposit (14, Fig. 5).

Inco Gold Management Inc. will carry out general reconnaissance, mapping and geophysics on the IGLOO claims (2 and 7, Fig. 5).

Kaminak Resources Ltd. plan to mapping, prospecting and sampling on four claims in the Whiterock Lake area (3, Fig. 5).

On behalf of **Lucky Eagle Mines**, a joint venture of **Agnico-Eagle Mines Ltd.** and **Hecla Mining Company of Canada Ltd., W.A. Hubachek Consultants Ltd.** plan to drill approximately 1500 m and carry out magnetic, Max-Min and VLF surveys on gold and possible base metal targets on two permits in the Kasba Lake-Ennadai Lake area (20, Fig. 5).

Noble Peak Resources Ltd. are planning magnetic and IP surveys plus drilling of the Mac and Cache prospects at Kaminak Lake (10, Fig. 5). Exploration is also planned for the Happy Lake joint venture with **Borealis Exploration Ltd.** (8, Fig. 5).

Sikaman Gold Resources Ltd. may continue exploration on the KAM Claims (12, Fig. 5), NORSIK claims (11, Fig. 5) and MAZE claims (4, Fig. 5) near Kaminak and Maze Lakes.

Suncor Inc. are planning to explore Prospecting Permits 1229-1232 in the Cullaton Lake area by prospecting, sampling and trenching. Pending favourable results, a more detailed exploration program will follow (18, Fig. 5).

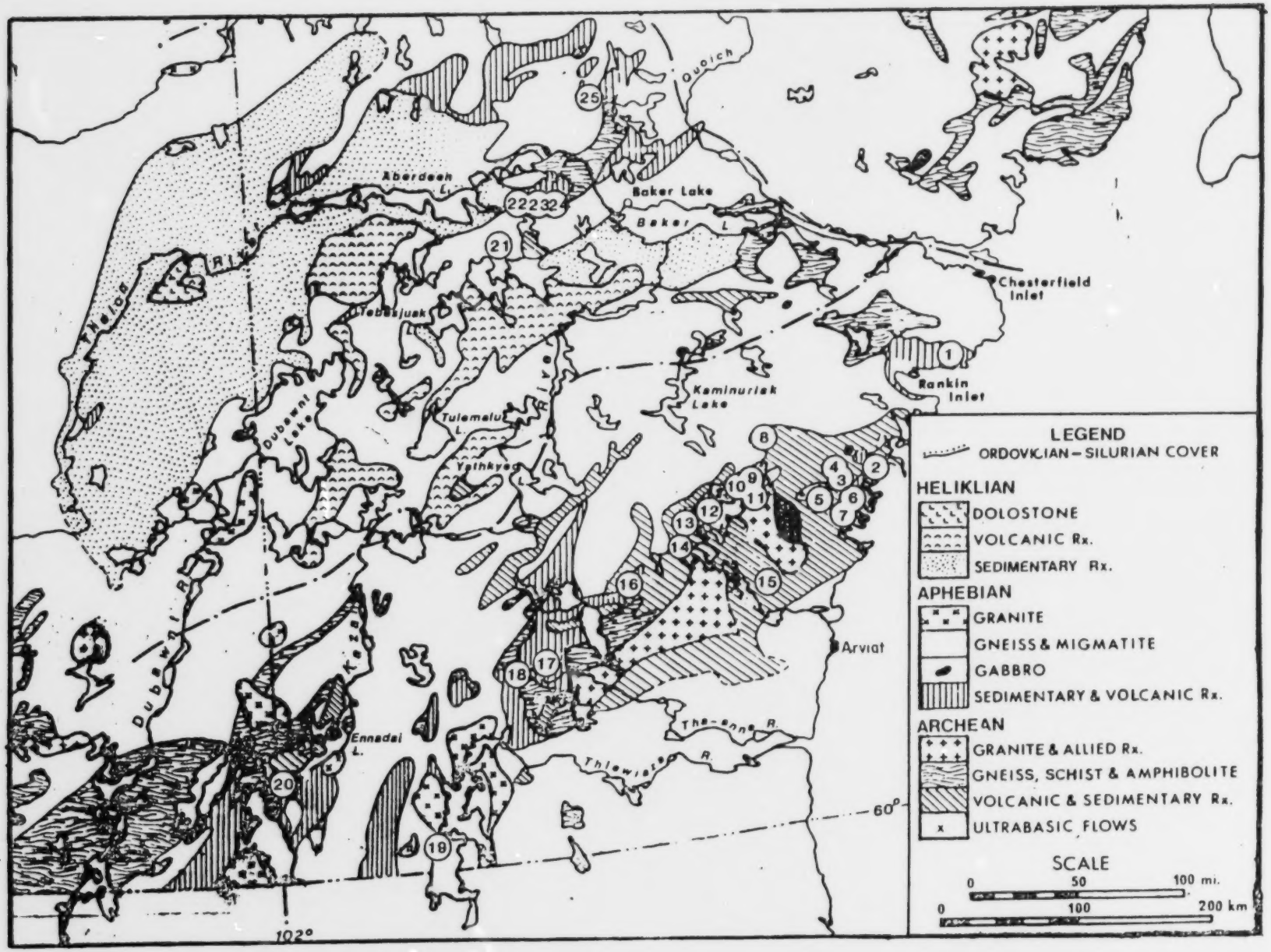

Figure 5: Proposed mineral exploration in the Keewatin District, 1990.

URANIUM AND OTHER COMMODITIES

CEGB Exploration (Canada) Ltd. plan to explore property along strike from the Kiggavik deposit with prospecting, DIGHEM and gravity surveys (22 and 24, Fig. 5).

Claude Resources Inc. plan mapping and prospecting plus magnetic and VLF surveys of uranium and gold showings at claims on Sandy Beach Lake (19, Fig. 5).

Urangesellschaft (Canada) Ltd., in a joint venture with **PNC Exploration (Canada) Co. Ltd.**, plan to drill approximately 6000 m and to map, prospect, conduct DIGHEM 4 and localized gravity surveys on leases, claims and permits in the Judge Sissons Lake - Schultz Lake South area (21, Fig. 5).

Urangesellschaft (Canada) Ltd. completed their environmental assessment report on the Kiggavik uranium deposit (23, Fig. 5) in December 1989 and the statement in response to the FEARO guidelines has since been submitted. Development of the open pit mine is pending approval from a FEARO panel.

Prospecting Permits issued February 1, 1990 cover the following map areas in the Keewatin:

NUMBER	NTS MAP AREA	PERMITTEE
1206	66-H-07 NW	Comaplex Minerals Corp.
1207	66-H-07 NE	Comaplex Minerals Corp.
1208	66-H-08 NW	Comaplex Minerals Corp.
1209	66-H-08 SW	Comaplex Minerals Corp.
1210	55-J-13 NE	Asamera Minerals Inc.
1211	55-J-14 NE	Asamera Minerals Inc.
1212	55-J-14 NW	Asamera Minerals Inc.
1213	55-J-15 NW	Asamera Minerals Inc.
1214	55-N-01 NE	Asamera Minerals Inc.
1215	55-N-01 NW	Asamera Minerals Inc.
1216	55-O-02 NW	Asamera Minerals Inc.
1217	55-O-02 SW	Asamera Minerals Inc.
1218	55-O-03 NE	Asamera Minerals Inc.
1219	55-O-03 NW	Asamera Minerals Inc.
1220	55-O-03 SE	Asamera Minerals Inc.
1221	55-O-03 SW	Asamera Minerals Inc.
1222	55-O-04 NE	Asamera Minerals Inc.
1223	55-O-04 NW	Asamera Minerals Inc.
1224	55-O-04 SE	Asamera Minerals Inc.
1229	65-G-02 SE	Suncor Inc.
1230	65-G-02 NE	Suncor Inc.
1231	65-G-02 NW	Suncor Inc.
1232	65-G-07 SW	Suncor Inc.
1233	65-G-08 SE	Comaplex Minerals Corp.
1234	65-G-08 NE	Comaplex Minerals Corp.
1235	65-H-05 NW	Comaplex Minerals Corp.
1236	65-H-05 SW	Comaplex Minerals Corp.
1237	65-H-04 NW	Comaplex Minerals Corp.
1251	65-G-01 NE	Comaplex Minerals Corp.

ARCTIC ISLANDS

Walter A. Gibbins

Cominco Ltd. plans to drill lead-zinc deposits at Truro Island and the Eclipse property on eastern Little Cornwallis Island (1, Fig. 6) Drilling also continues in the vicinity of the Polaris Mine.

Nanisivik Mines Ltd. will continue to explore the Nanisivik Mine area and recently acquired Prospecting Permits 1238-1240 and 1242 which are east of the mine for Proterozoic lead-zinc deposits (2, Fig. 6). They will also explore Prospecting Permits 1241 and 1243 near Ege Bay (4, Fig. 6) and claims near Mary River and Turner River (3, Fig. 6) for precious and base metal targets.

Comaplex Minerals Corp. will be doing geochemical follow-up work of arsenic anomalies in Piling Group metasediments on Prospecting Permits 1194-1205, southwest of Generator Lake (5, Fig. 6; 37 D) and north of Dewar Lake (6, Fig. 6; 27 B).

Borealis Exploration Ltd. and partners will explore for base metals in nine Prospecting Permits 1185-1193 on southern Melville Peninsula (7, Fig. 6).

Prospecting Permits issued February 1, 1990 cover the following map areas in the Arctic Islands:

NUMBER	NTS MAP AREA	PERMITTEE
1185	46-N-01 NE	BOREALIS EXPLORATION LTD.
1186	46-N-01 NW	BOREALIS EXPLORATION LTD.
1187	46-N-01 SW	BOREALIS EXPLORATION LTD.
1188	46-O-04 NW	BOREALIS EXPLORATION LTD.
1189	46-O-05 SE	BOREALIS EXPLORATION LTD.
1190	46-O-05 NW	BOREALIS EXPLORATION LTD.
1191	46-O-06 NE	BOREALIS EXPLORATION LTD.
1192	46-P-04 NW	BOREALIS EXPLORATION LTD.
1193	46-P-05 NW	BOREALIS EXPLORATION LTD.
1194	27-B-12 NW	COMAPLEX MINERALS CORP.
1195	27-B-13 NW	COMAPLEX MINERALS CORP.
1196	27-B-13 SW	COMAPLEX MINERALS CORP.
1197	37-A-16 SE	COMAPLEX MINERALS CORP.
1198	37-D-02 NW	COMAPLEX MINERALS CORP.
1199	37-D-03 NE	COMAPLEX MINERALS CORP.
1200	37-D-03 NW	COMAPLEX MINERALS CORP.
1201	37-D-03 SE	COMAPLEX MINERALS CORP.
1202	37-D-03 SW	COMAPLEX MINERALS CORP.
1203	37-D-06 SE	COMAPLEX MINERALS CORP.
1204	37-D-06 SW	COMAPLEX MINERALS CORP.
1205	37-D-07 SW	COMAPLEX MINERALS CORP.
1238	48-A-13 NE	NANISIVIK MINES LTD.
1239	48-B-16 NE	NANISIVIK MINES LTD.
1240	48-A-13 NW	NANISIVIK MINES LTD.
1241	37-C-09 NW	NANISIVIK MINES LTD.
1242	48-A-13 SE	NANISIVIK MINES LTD.
1243	37-C-09 NE	NANISIVIK MINES LTD.

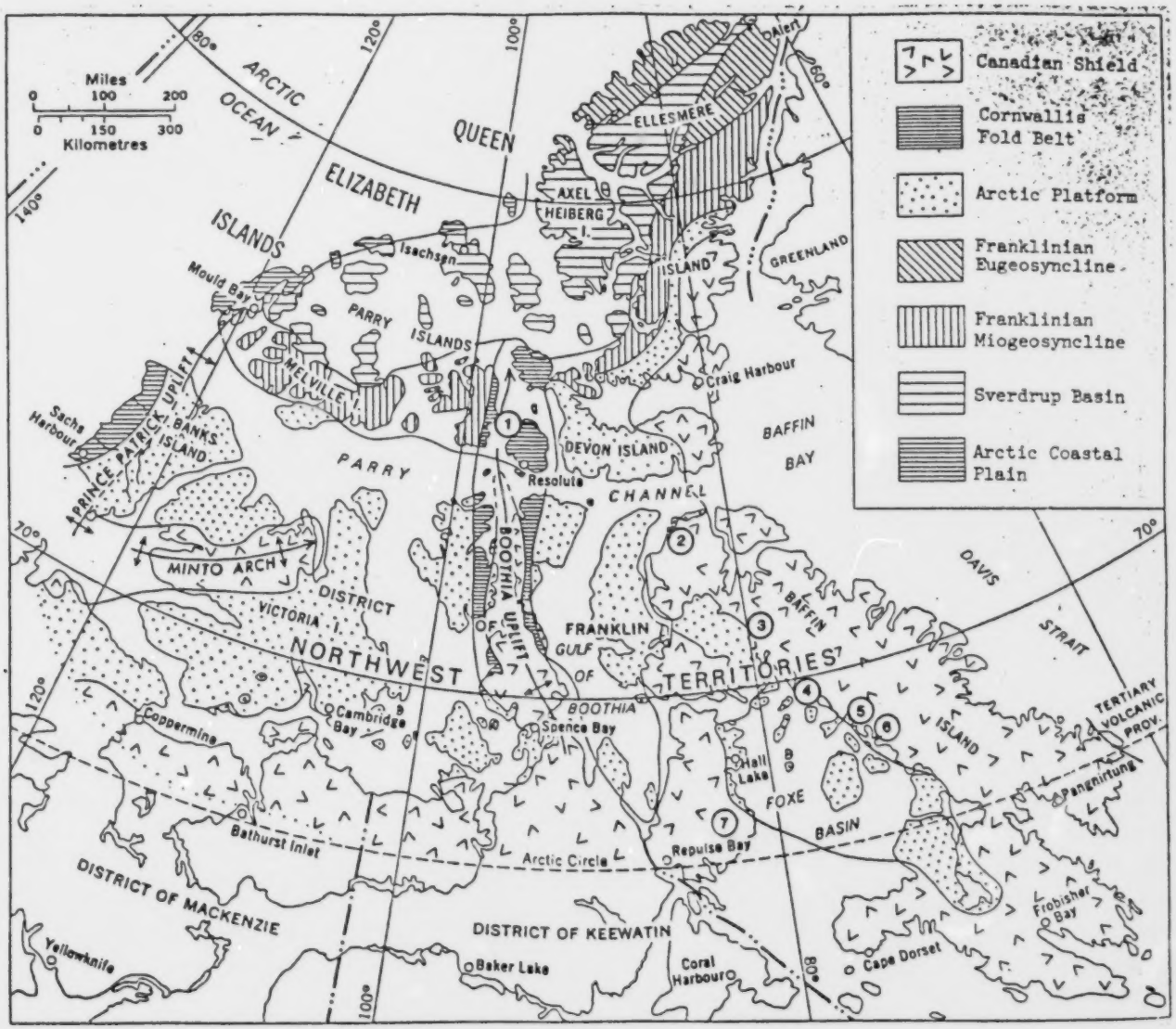

Figure 6: Proposed mineral exploration in the Arctic Islands Region, 1990.

CORDILLERA

Dorothy Atkinson

Sirius Resources Corp. and **Verdstone Gold Corp.** will continue exploration and evaluation of the Selena Creek property (95 D/15,E/2) as recommended by Wright Engineers' pre-feasibility study. Work including test pits wil lead to a production decision in 1990. **Sirius** has discovered a placer deposit which management believes could total 20 million cubic yards with an estimated value of $20 per cubic yard. Reconnaissance geological mapping indicates a lode gold deposit is hosted in intrusive rocks on the property. Additional geological study and prospecting will be completed this summer.

Indian and Northern Affairs, Canada